

(C) WPI/Derwent

AN - 1986-079176 [25]

AP - JP19840151047 19840720; JP19840151047 19840720; [Based on J61028590]

CPY - MIYO

DC - H08 M21

FS - CPI

IC - C10M101/04 ; C10M105/26 ; C10M109/02 ; C10M173/00 ; C10N20/02 ;
C10N30/06 ; C10N40/22 ; C10N40/22 ; C10N40/24 ; C10N60/02 ; C10N60/02

MC - H07-X M21-B03

PA - (MIYO) MIYOSHI YUSHI KK

PN - JP61028590 A 19860208 DW198612 005pp

- JP4073477B B 19921120 DW199251 C10M109/02 005pp

PR - JP19840151047 19840720

XA - C1986-034080

XIC - C10M-101/04 ; C10M-105/26 ; C10M-109/02 ; C10M-173/00 ; C10N-020/02 ;
C10N-030/06 ; C10N-040/22 ; C10N-040/22 ; C10N-040/24 ; C10N-060/02 ;
C10N-060/02 ; (C10M-101/04 C10M-105/26 C10M-109/02)

AB - J61028590 Fluid compsn. contains maleinated hydrogenated fish oil
having 40-20,000 cp viscosity at 38.8 deg.C obtd. by allowing maleic
anhydride to react with hydrogenated fish oil having 50-120 iodine
value.

- The hydrogenated fish oil is optionally selected from any kinds of
fish oil except one not extremely oxidised or polymerised. The
hydrogenation is carried out by a conventional catalytic process, e.g.
using 0.2-1.0 wt.% (based on the amt. of the oil) Ni catalyst at
160-200 deg.C under 1.0-4.0 kg/cm² H₂ pressure. Preferred iodine value
after hydrogenation is 50-120, more pref. 60-100. The maleination
reaction is carried out noncatalytically or using a conventional
catalyst at 150-250 deg.C with a proportion of 0.1-4.0, pref. 0.5-2.5
mole maleic anhydride to 1 mole hydrogenated fish oil.

- USE/ADVANTAGE - When at least 4 wt.% maleinated oil is added to an
animal or vegetable oil, mineral oil, other oily agent or extreme
pressure additive, a satisfactory metal working performance is obtd..
The maleinated oil has self-emulsifiability. The amt. of surface
active agent used for utilising the oil for an aq. metal working oil
is significantly saved and the obtd. metal working oil causes little
frothing. An oil-soluble metal working fluid having superior lubricity
is obtd. by adding the maleinated oil to mineral oil, synthetic oil or
animal or vegetable oil.

C - C10M109/02 C10M101/04 C10M105/26

IW - METAL WORK FLUID CONTAIN MALEINISED FISH OIL PREDETERMINED
VISCOSITY

IKW - METAL WORK FLUID CONTAIN MALEINISED FISH OIL PREDETERMINED
VISCOSITY

NC - 001

OPD - 1984-07-20

ORD - 1986-02-08

PAW - (MIYO) MIYOSHI YUSHI KK

TI - Metal working fluid - contains maleinated fish oil of predetermined
viscosity